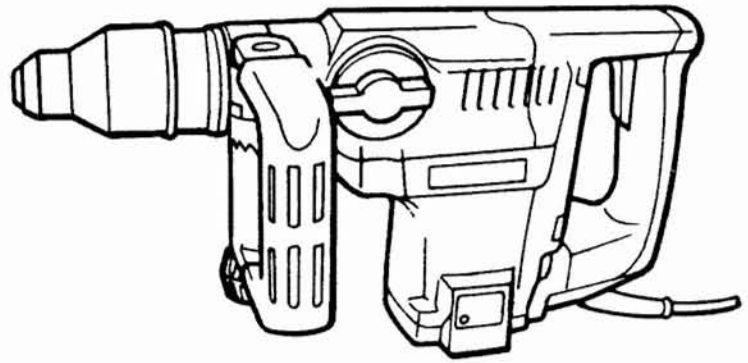
PT30101

HAMMER DRILL

40mm(1 9/16")

USER'S MANUAL



DOUBLE INSULATED

Specification

drill capacity		rotate speed (per min)	impact rate (pre min)	Length	Net weight
drill bit Diameter	drill holes Diameter				
40mm(1 9/16")	105mm(4 1/8")	230 - 450	1250 - 2500	455mm(17 7/8")	6.2Kg(13.6pound)

*The producer reserves the right of specification alteration without notification.
*Note: The specification may change accordingly with the different coutries to which the product sells.

KEY SECURITY NOTES

(For All Tools)

Note: The following listen security item are to be noted to reduce the fire, electric shock, injury and other accidents when using the electric tools.

1. Keep the work area clean. No use of the electirc tools in a disorderly work area or table-board, which is likely to cause accidents.

2. Pay attention to the environment of the work area. No use of the electric tools in damp sile, or where there is rain fall, flammable liquid or combustible gas.

3. Access of children and entrance of persons not concerned to the work area are prohibited. The electric tools and power supply conducting wires shall be free from the access and touth of persons not concerned.

4. Store the tools. The electric tools shall be packed away in a dry locale which will not be reached by children, and ought to be locked.

5. Don't use the tools without enough load capacity. The electric tools should be operated within the specified load capacity to achieve good effect and safety.

6. Adequate use of the tools, No use of small knives or equipment for workpieces to be processed by large ones, No application of knives desired for other uses.

7. Watch clothing. It is most dangerous to operate the electric tools in loose dress which could be twined into the speedy rotating machine. Rubber gloves and shoes without holes shall be worn in outdoor work. And wearing caps is preferred at work.

8. Wear safety glasses. It is necessary to wear a respirator when there are dusts out of planing scraps.

9. Don't spoil the conducting wires. Do not move the tools with the conducting wire on, or pull out the plug by drawing the wire. Conducting wires should also be kept from objects of high temperature, sharp rim of metal or grease.

10. Fix the workpiece. It is safer to hold the processing workpiece with pincers instead of hands.

11. proper posture is to be held at work. Stand steadily and never extend the hands over the tools to fetch or process something.

12. Maintain the tools adequately. The tools shall be kept sharp to acquire good performance and safety. Lubricate and exchange fittings up to the rules. Check the conducting wires regularly and repair the broken one in the special repairing center. Renew the extended conductor immediately once it is broken. Keep the handle dry and clean, and free from grease.

13. While the tools are not working, under maintenance, or replacing the clamp or cutter, **the plug must be pulled put.**

14. Remember to remove the regulating tool and the spanner, etc. Do not forget to check whether the regulating tool and fixing spanner have been removed before turn on the switch to run the machine. It is a habit to be cultivated **off.**

15. Prevent accidental start-up. Before plug in the machine, make sure that the switch is turned off.

16. Use extended conductor outdoors. Extended conducting wires must be used when using the tools outdoors.

17. Keep cool-minded at work. Concentrate on the workpiece and the tools when performing the job. Never use the tools with fatigue.

18. Check the broken part. Before use the tools again, check carefully whether there is any damage to the protecting cover or other parts of the tool, and whether the damage is severe enough to affect the normal operation of the tool. Check whether all the movable parts are in place, and all the parts to be fixed are fixed. All parts that may influence the normal operation should be checked. The protecting cover or other parts, if broken, should be repaired or replaced in the special store. While the switch of the tool, if anything wrong, should be replaced in the special service center. Never use the broken switch to run the tool.

19. Avoid electric shock. Do not touch the grounded metal with body, such as iron pipe, radiator, refrigerating unit, etc.

20. Replace the parts, Choose the parts specified by the manufacturer and have them replaced by the special repairing center.

Mind the voltage of the power supply: Make sure the voltage of the power supply is the same as that indicated on the board of the tool. When the former is higher than the latter, grave accidents would happen to the user, as well as ruin to the tool itself. Therefore never plug in before confirm the voltage of the power supply. On the other side, if the former is lower than the latter, it will be harmful to the engine.

AMENDMENT TO THE SECURITY NOTES OF THE ROTARY HAMMER

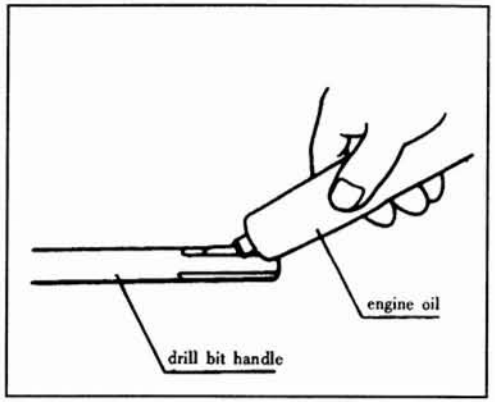
1. Use safety helmet and ear protectors.
2. Always inspect drill bit before using the machine.
3. Inspect the screw to avoid accident because the tool will librate under the normal working state.
4. Make the tool running a while at no-load speed in order to operate it easily.
5. Make sure that nobody stands there when you use the tool on high, the work place must be safe and reliable.
6. Hold the tool by both hands. Be sure to use the side handle.
7. Keep away your hands from the rotary parts.
8. Do not keep the tool rotating continously after using. You can only operate it when holding tightly.
9. All visitors should be kept away from work place. The drill bit may be fly off and make somebody injury.
10. The tool will touch the live line when drilling the wall, floor or other place. So do not touch the metal parts of the tool. You should hold the plastic or side handle to avoid electric shock.
11. Do not touch the drill bit or surrounding parts at once after using. These parts will scald your skin.
12. Pay attention not to bruise somebody or damage goods after installing the sill anchor or knocking the top with hammer.

KEEP THE INSTRUCTION MANUAL.

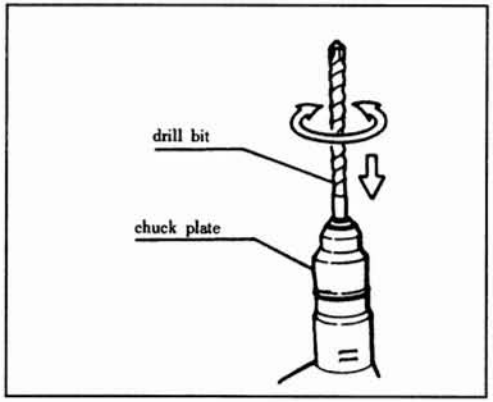
INSTALL OR UNINSTALL THE DRILL BIT

* CAUTION: Make sure shut off the switch and pull out the plug before installing or uninstalling the drill bit.

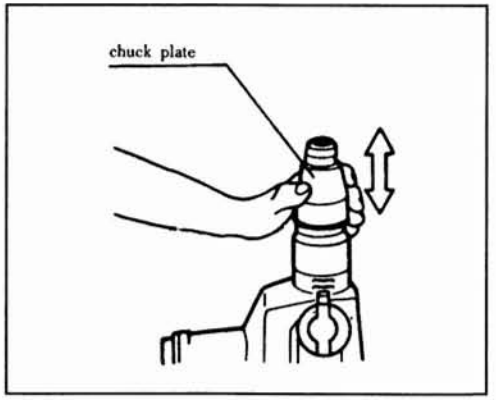
You should clean the drill bit handle and smear the engine oil before installing the drill bit.



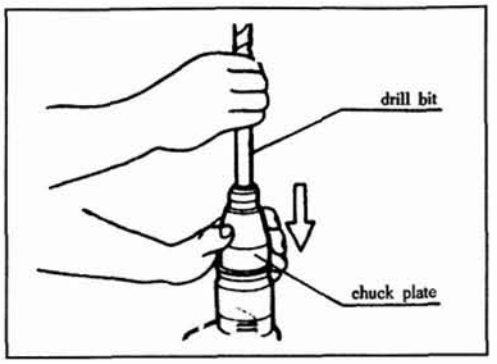
Insert the drill bit to its body, then revolve and thrust it in, make the drill bit and the chuck lock together.



If the drill bit can not be thrusted in, uninstall it and drag down the chuck several times, then insert the drill bit again, revolve it and thrust it to lock together.



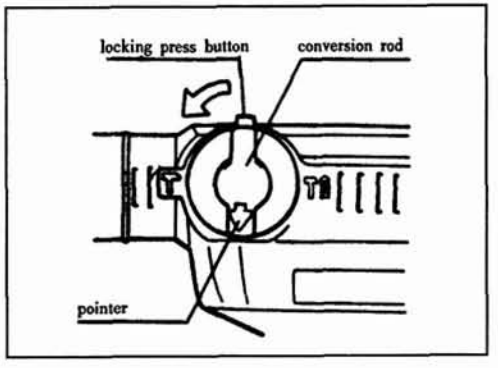
You should pull the the drill bit after installing to ensure that it is fixed completly, drag down the chuck sheel and pull out the drill bit before uninstalling it.



CHOOSE A MOVEMENT WAY

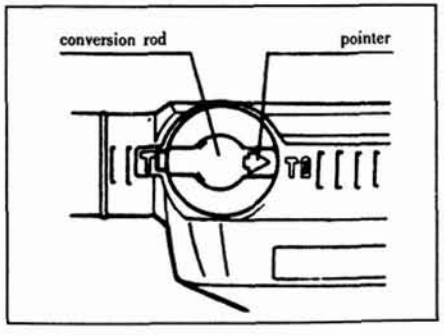
HAMMER REVOLVING

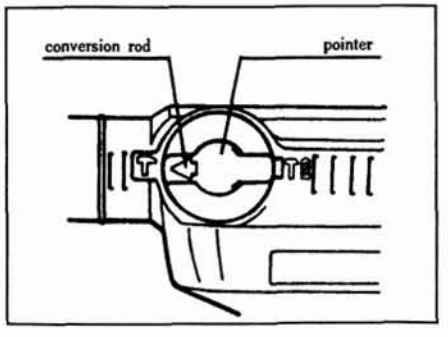
Depress the locking press button when drilling on the concrete or brick, keep the pointer to the side of T through revolving the conversion rod. You should use the tungsten hard alloy drill bit.



SIMPLE HAMMERING

Depress the locking press button when cutting, planing, casting, keep the pointer to the side of T through revolving the conversion rod. You should use the top-quality cold chisel, plane chisel etc.





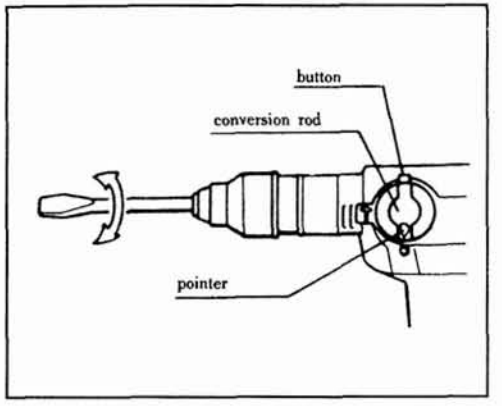
CAUTION:

Do not revolve the conversion rod at no – load speed to avoid damaging the tool. Keep the conversion rod lies in the one of the two kinds of mode to avoid wearing the interconversion mechanism.

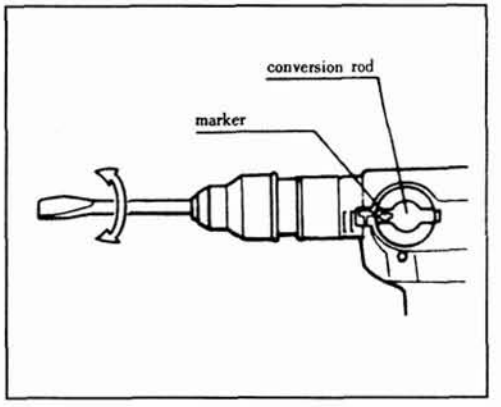
ANGLE OF THE DRILL BIT (When cutting, planing, casting)

* CAUTION: Make sure shut off the switch and pull out the plug before changing the angle of the drill bit.

The drill bit can be fixed through tweleve angles. Depress the locking press button, make the pointer to the side of O through revolve the conversion rod, then revolve the drill bit to proper angle.

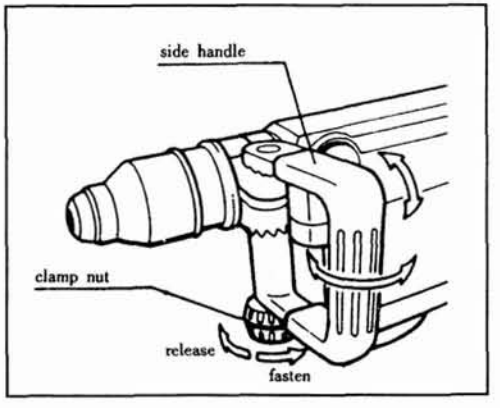


Depress the locking press button, Make the pointer to the side of the T through revolve the conversion rod. Then revolve the drill bit to ensuer it lies in the reliable position.



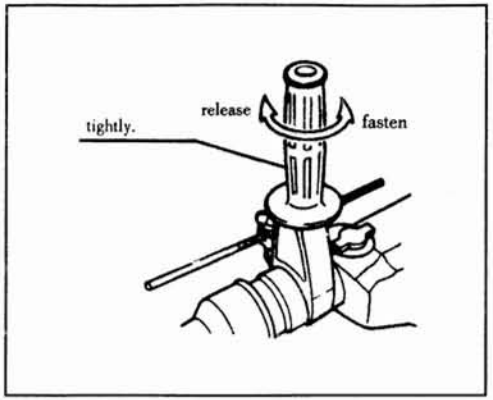
SIDE HANDGRIP(ACCESSORIAL HANDGRIP)

The side handgrip can be revolved in 360 positions of vertical direction and fixed in freewill positions. At the same time it can be fixed in 8 positions of horizontal direction. Loosen the clamp nut, revolve the side handle to proper position then fasten the clamp nut.



SIDE HANDLE

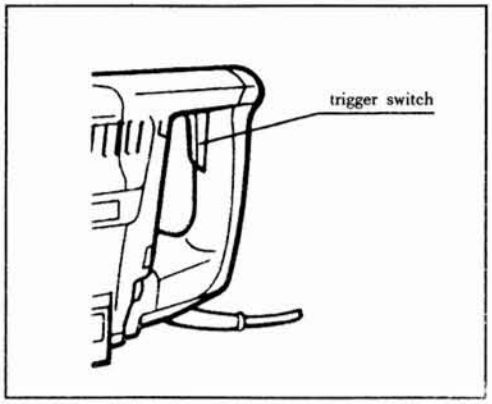
You can loosen the side handle to proper position as long as you loosen it to left (anticlockwise), then fasten he side handle tightly.



OPERATING THE SWITCH

Depress the trigger switch to start the tool, release the trigger to stop the tool.

* CAUTION: Inspect the switch before inserting the power, depress the trigger switch then release it to see whether it can bounds to home position(OFF)



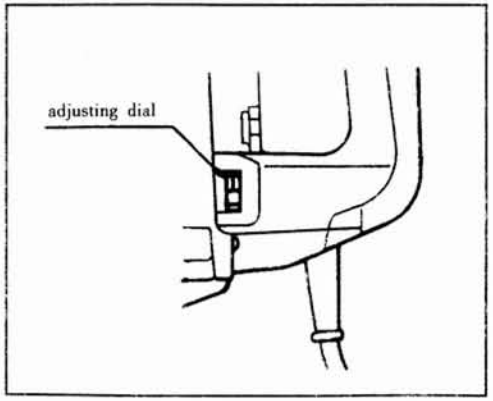
CHANGING THE SPEED

Adjust the rotate speed and impact number through revolving the adjusting dial.

It marks 1(the lowest speed) to 6 (top speed)on dial.

Refer to the following list about the relation between the figure and the rotate speed/impact number.

number	rotate speed	impact number (per min)
6	450	2, 500
5	430	2, 350
4	370	2, 050
3	310	1, 700
2	250	1, 400
1	230	1, 250



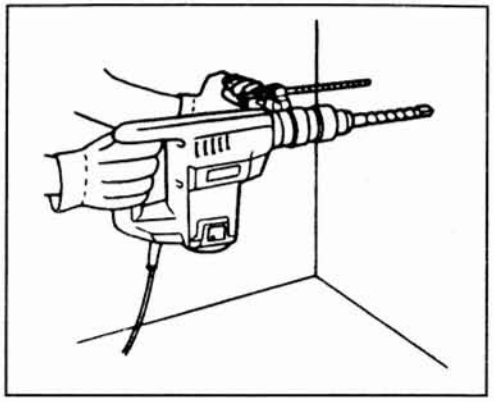
OPERATING THE DRILL HOLES

Keep the conversion rod setting on the side of T.

Keep the drill bit to drill holes position, then depress the trigger.

Do not force the tool, you should operate it softly. Make sure the tool can not deviate the drill holes position.

Do not drill ulteriorly when the drill holes is stopped by the chip or powdered scrap, you should keep the tool rotating slowly and pull out from the drill holes, do it several times you can clean the drill holes.



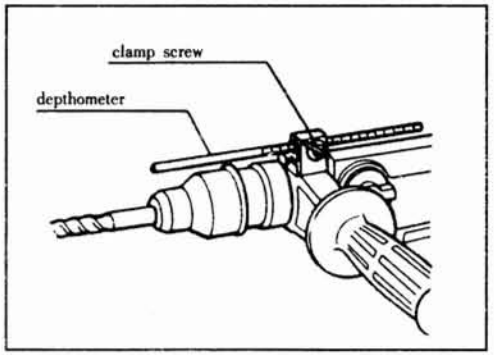
TORQUELIMITER

Torque limiter will work when it has stated torque distance. The motor will break away the output shaft and the drill bit will stop revolving.

* CAUTION: It must be shut off the switch as long as the torque limiter works to avoid wearing.

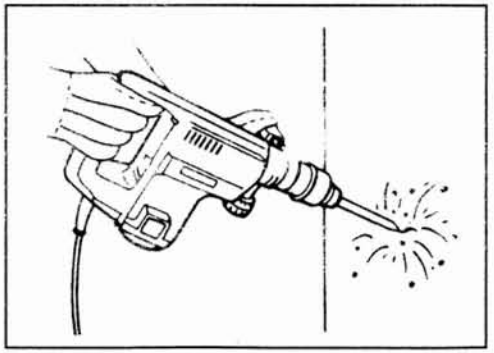
DEPTHOMETER

The drill holes is same by depthometer. Release the clamp screw, adjust the depthometer, then fasten the clamp screw.

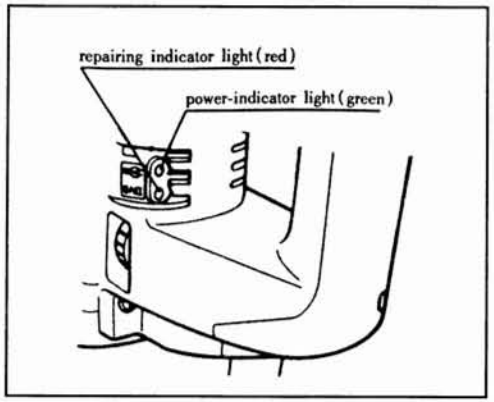


CUTTING/PLANING/CASTING

Setting the conversion rod on the side of T. Hold the tool by both hands, start the tool and clamp down the tool slightly to avoid bouncing or running away. Force overly can not improve the working efficiency.



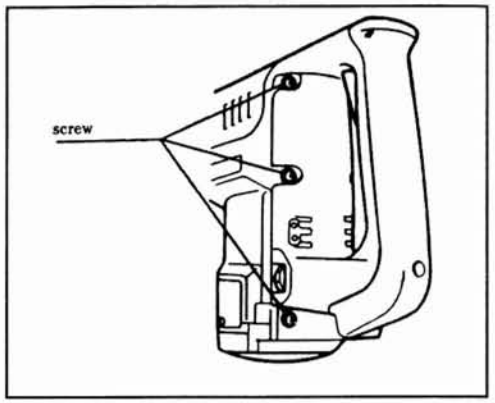
INDICATORLIGHT



Green indicator light will give out light when operating the tool, if the indicator light is light but the tool can not start which indicate the carbon brush may be wear out or circuit, motor appears faults. The indicator light is dark and the tool can not start which indicate it lies in ON/OFF position, the switch or the power line appears faults.

Red indicator light will give out the light when the carbon brush almost wears out which indicate the tool must be repaired. The motor will shut off automatically when the tool working about eight hours constantly.

LUBRICATING

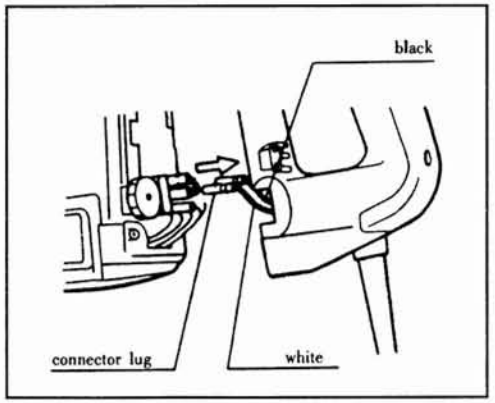


The tool need not lubricate every hour or every day for its grease system, but it must be lubricated once six months. Please operate it as following the process:

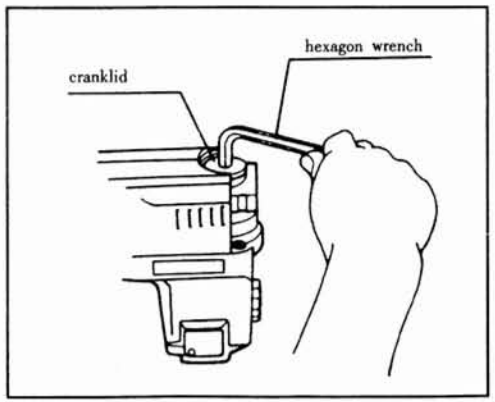
Running the tool several minutes and preheat, then shut off the switch and pull out the power supply.

Back off six bolts, uninstall the handle. The top bolt is diffrent from others bolts.

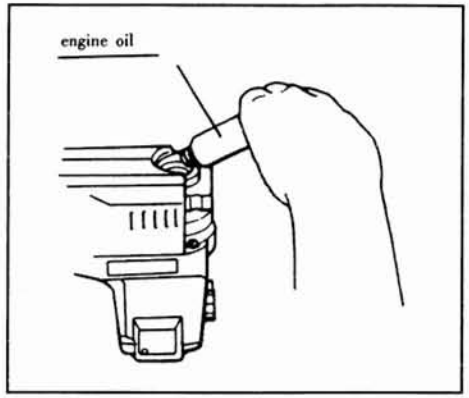
Pull out two connector lug(white and blak)and break up them.

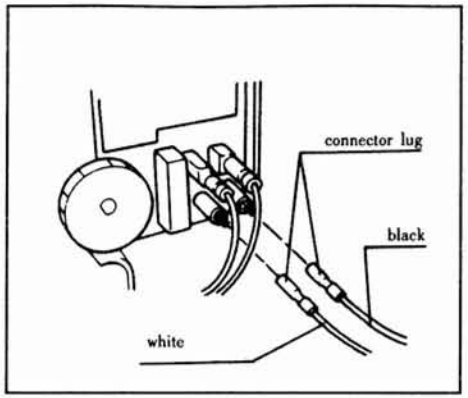


Uninstall the cranklid with hexagon wrench.



Keep the tool on the table and the tip of the old grease and rechange the new grease(30g). It will cause the hammer working abnormally or the machine failurly if its number is over apointed 30g grease. So feed into apoint number grease. Then install the cranklid again with the hexagon wrench.





* CAUTION:

* Not to damage the connector lug or lead when getting rid of the old grease and installing the handle.

* Do not fasten the tool overly to avoid chipping for the cranklid is made of resin.

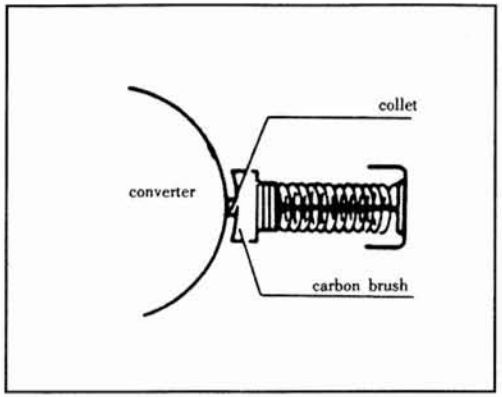
MAINTENANCE

* CAUTION: It must be shut off the switch and pull out the plug before inspecting or maintenance.

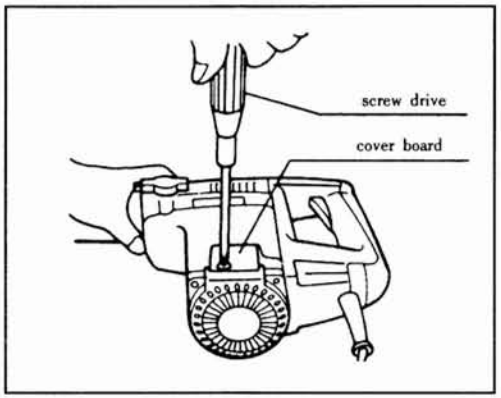
RECHANGING THE CARBON BRUSH

It can shut off the motor automatically when the resin's head of the carbon brush comes out and touches the converter.

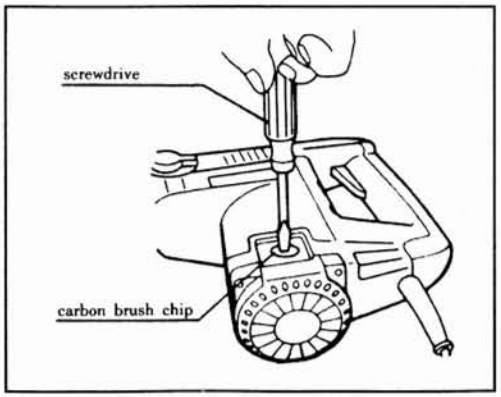
When it appears this suitation, the carbon brush should be replaced.



Uninstall the screw of the cover board with the screwdrive, following the figure.



Uninstall the clip of the carbon brush with the screwdrive. Take out the wearable carbon brush and insert new carbon brush then fasten the clip of the carbon brush.



STANDARD ACCESSORIES

(1) engine oil ·····1

(2) plastic carrying case ·····1

(3) side handle ····· 1

(4) depthometer ·····1

(1)

(2)

(3)

(4)